

(FILE 'HOME' ENTERED AT 12:00:44 ON 20 FEB 2006)

FILE 'REGISTRY' ENTERED AT 12:01:11 ON 20 FEB 2006

E SACCHARIDE

L1 3984 S E3
L2 0 S SACCHARIDE/CN
E SORBITOL
L3 1285 S E3
L4 1 S SORBITOL/CN
E XYLITOL
L5 3522 S E3
L6 1 S XYLITOL/CN
E SILICON DIOXIDE

FILE 'CAPLUS, CAOLD' ENTERED AT 12:02:58 ON 20 FEB 2006

L7 310730 S L1
L8 530 S L7 AND RUTHENIUM
L9 57 S L8 AND SILICON?
L10 20 S L9 AND ?DIOXIDE
L11 0 S L10 AND AMORPHUS
L12 2 S L10 AND AMORP?
L13 2 DUP REM L12 (0 DUPLICATES REMOVED)
L14 3 S L10 AND L3
L15 1 S L14 NOT L13
L16 2 S L10 AND SUGAR ALCOHOL
L17 1 S L16 NOT L12
L18 1 S L17 NOT L14
L19 46046 S L3
L20 8306 S L5
L21 162 S L19 AND RUTHENIUM?
L22 15 S L21 AND SILICON?
L23 3 S L22 AND ?SACCHARIDE
L24 1 S L23 NOT L12
L25 1 S L24 NOT L14
L26 1 S L25 NOT L16
L27 1 S L26 NOT L18

L12 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2004:513648 CAPLUS

DN 141:55979

TI Continuous catalytic hydrogenation method for the production of sugar alcohols from aqueous saccharide solutions

IN Arndt, Jan-Dirk; Klass, Katrin; Van Laar, Frederik; Herwig, Stephan; Henkelmann, Jochem

PA BASF Aktiengesellschaft, Germany

SO PCT Int. Appl., 22 pp.

CODEN: PIXXD2

DT Patent

LA German

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004052813	A1	20040624	WO 2003-EP13632	20031203
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	DE 10258089	A1	20040624	DE 2002-10258089	20021211
	DE 10352336	A1	20050609	DE 2003-10352336	20031106
	EP 1572607	A1	20050914	EP 2003-780110	20031203
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
	BR 2003016829	A	20051018	BR 2003-16829	20031203
	US 2006009661	A1	20060112	US 2005-538265	20050610
PRAI	DE 2002-10258089	A	20021211		
	DE 2003-10352336	A	20031106		
	WO 2003-EP13632	W	20031203		

AB A continuous procedure for the production of sugar alcs. (e.g., sorbitol) by catalytic hydrogenation of an aqueous solution of a precursor saccharide (e.g., wheat-starch hydrolyzates) is conducted over a **ruthenium** catalyst, which hydrogenation catalyst is prepared by: (i) repeatedly treating an **amorphous silicon dioxide** substrate with a halogen-free aqueous solution of a low-mol.-wt **ruthenium** compound following drying of the treated substrate at <200°; and (ii) reduction of the solid from step (i) with hydrogen at 100-350°.

L12 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2004:509984 CAPLUS

DN 141:55978

TI Continuous catalytic hydrogenation procedure for the production of sorbitol from monosaccharides

IN Arndt, Jan-Dirk; Klass, Katrin; Van Laar, Frederik; Herwig, Stephan; Henkelmann, Jochem

PA BASF AG, Germany

SO Ger. Offen., 7 pp.

CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 10258089	A1	20040624	DE 2002-10258089	20021211
	WO 2004052813	A1	20040624	WO 2003-EP13632	20031203
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ,				

TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
 RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ,
 BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE,
 ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK,
 TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

EP 1572607 A1 20050914 EP 2003-780110 20031203

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK

BR 2003016829 A 20051018 BR 2003-16829 20031203

US 2006009661 A1 20060112 US 2005-538265 20050610

PRAI DE 2002-10258089 A 20021211

DE 2003-10352336 A 20031106

WO 2003-EP13632 W 20031203

AB A continuous procedure for the production of sorbitol by catalytic
 hydrogenation of an aqueous solution of a sorbitol-precursor monosaccharide
 (e.g., wheat-starch hydrolyzates) over at a **ruthenium** catalyst,
 which hydrogenation catalyst is prepared by: (i) repeatedly treating an
amorphous silicon dioxide substrate with a
 halogen-free aqueous solution of a low-mol.-wt **ruthenium** compound
 following drying of the treated substrate at <200°; (ii) reduction of
 the solid from step (i) with hydrogen at 100-350°.

L27 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2002:941595 CAPLUS

DN 138:14821

TI Hydrogenation process and reduced **ruthenium**-silica catalysts for the manufacture of sorbitol from aqueous **monosaccharide** solutions

IN Vanoppen, Dominic; Maas-Brunner, Melanie; Kammel, Ulrich; Arndt, Jan-Dirk

PA BASF AG, Germany

SO Ger. Offen., 10 pp.

CODEN: GWXXBX

DT Patent

LA German

FAN. CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 10128203	A1	20021212	DE 2001-10128203	20010611
	CA 2449522	AA	20021219	CA 2002-2449522	20020610
	WO 2002100539	A2	20021219	WO 2002-EP6349	20020610
	WO 2002100539	A3	20030717		
	WO 2002100539	C1	20031224		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	EP 1412083	A2	20040428	EP 2002-747366	20020610
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	CN 1524015	A	20040825	CN 2002-813668	20020610
	BR 2002010334	A	20040921	BR 2002-10334	20020610
	JP 2004532275	T2	20041021	JP 2003-503351	20020610
	US 2004171889	A1	20040902	US 2003-479967	20031211
PRAI	DE 2001-10128203	A	20010611		
	WO 2002-EP6349	W	20020610		

AB Sorbitol is prepared in high yield and selectivity by the catalytic hydrogenation of an aqueous **monosaccharide** solution (e.g., an aqueous glucose solution) using as the catalyst a composition that obtained through: (i) one or repeated treating of a substrate based on amorphous **silicon** dioxide with a halogen-free aqueous solution of a low-mol.-weight **ruthenium** compound with drying of the treated substrate at <200°; and (ii) with immediate reduction of the solid precatalyst obtained received in step (i) with hydrogen at 100-350°.